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Application No.: 10/698,820

Docket No.: MWS-062RCE

**AMENDMENTS TO THE CLAIMS**

1. (currently amended) In an electronic device having a graphical modeling and execution environment, said graphical modeling and execution environment including at least one graphical model, a method comprising the steps of:

providing an automatic code generator to create source code that implements functionality of said at least one graphical model and that corresponds to data referenced by said at least one graphical model;

specifying a first manner in which said automatic code generator creates said source code;

providing a user interface with a plurality of selectable parameters for a custom storage class, said custom storage class specifying a second manner in which said automatic code generator creates source code corresponding to said data referenced by said at least one graphical model in said graphical modeling and execution environment, said second manner differing from said first manner; and

creating said custom storage class in said graphical modeling and execution environment utilizing parameters selected by a user from said plurality of selectable parameters.

2. (previously presented) The method of claim 1, comprising the further step of:

providing a view of salient aspects of said source code generated by said automatic code generator utilizing the user-selected parameters.

3. (previously presented) The method of claim 2, comprising the further steps of:

changing said user--selected parameters for said custom storage class in said user interface; and

adjusting said source code generated by said automatic code generator to reflect said change in said user--selected parameters.

4. (previously presented) The method of claim 3, comprising the further step of:

displaying salient aspects of said adjusted source code in said view of salient aspects of said source code.

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5. (currently amended) The method of claim 2, wherein said view of salient aspects of said source code automatically generated includes at least one token, said at least one token being symbolically representative of a non-displayed segment of said source code.

6. (previously presented) The method of claim 1, wherein said custom storage class declares macros for instances of constant data.

7. (previously presented) The method of claim 1, wherein said custom storage class declares variables for instances of constant data.

8. (currently amended) The method of claim 1, wherein said user-selected parameters control at least one of the a manner in which automatically generated source code is defined, declared, accessed and addressed.

9. (currently amended) The method of claim 1, wherein said user-selected parameters include[[s]] a non-portable directive to a compiler.

10. (previously presented) The method of claim 9, wherein said non-portable directive to a compiler assigns data to at least one memory location in said electronic device.

11. (previously presented) The method of claim 1, comprising the further step of:  
creating a separate header file with said automatic code generator in response to said selection of one of said plurality of user-selected parameters.

12. (currently amended) An electronic device having a modeling and execution environment with at least one graphical model, said electronic device comprising:

a processor for:

executing an automatic code generator to create source code that implements functionality of said at least one graphical model and that corresponds to data referenced by said at least one graphical model;

specifying a first manner in which said automatic code generator creates said source code; and

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creating a custom storage class in said modeling and execution environment, said custom storage class created utilizing parameters selected by a user from a plurality of selectable parameters; and  
a display device for:

displaying a user interface with said plurality of selectable parameters for said custom storage class, said custom storage class specifying a second manner in which said automatic code generator creates source code corresponding to said data referenced by said at least one graphical model, said second manner differing from said first manner;  
and

displaying a view of salient aspects of said source code generated by said automatic code generator utilizing said user-selected parameters.

13. (previously presented) The electronic device of claim 12, wherein said user—selected parameters for said custom storage class in said user interface are changed and said source code generated by said automatic code generator is adjusted to reflect said change in user—selected parameters.

14. (previously presented) The electronic device of claim 13, wherein said adjusted source code is displayed in said view of salient aspects of said source code.

15. (currently amended) The electronic device of claim 12, wherein said view of salient aspects of said source code includes at least one token, said at least one token being symbolically representative of a non-displayed segment of code.

16. (currently amended) A computer-readable medium for use in an electronic device having a graphical modeling and execution environment, said graphical modeling and execution environment including at least one graphical model, said computer-readable medium storing computer-executable instructions for:

providing an automatic code generator to create source code that implements functionality of said at least one graphical model and that corresponds to data referenced by said at least one graphical model;

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specifying a first manner in which said automatic code generator creates said source code;

providing a user interface with a plurality of selectable parameters for a custom storage class, said custom storage class specifying a second manner in which said automatic code generator creates source code corresponding to said data referenced by said at least one graphical model in said graphical modeling and execution environment, said second manner differing from said first manner; and

creating said custom storage class in said graphical modeling and execution environment utilizing parameters selected by a user from said plurality of selectable parameters.

17. (currently amended) The computer-readable medium of claim 16, further storing computer-executable instructions for~~wherein said method comprises the further step of:~~

providing a view of salient aspects of said source code generated by said automatic code generator utilizing said user-selected parameters.

18. (currently amended) The computer-readable medium of claim 17, further storing computer-executable instructions for~~wherein said method comprises the further steps of:~~

changing said user—selected parameters for said custom storage class in said user interface; and

adjusting said source code generated by said automatic code generator to reflect said change in user—selected parameters.

19. (currently amended) The computer-readable medium of claim 18, further storing computer-executable instructions for~~wherein said method comprises the further step of:~~

displaying said adjusted source code in said view of salient aspects of said source code.

20. (currently amended) The computer-readable medium of claim 17, wherein said view of salient aspects of said source code automatically generated includes at least one token, said at least one token being symbolically representative of a non-displayed segment of said source code.

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21. (previously presented) The computer-readable medium of claim 16, wherein said custom storage class declares macros for instances of constant data.

22. (previously presented) The computer-readable medium of claim 16, wherein said custom storage class declares variables for instances of constant data.

23. (currently amended) The computer-readable medium of claim 16, wherein said user-selected parameters control at least one of ~~the~~ a manner in which automatically generated source code is defined, declared, accessed and addressed.

24. (currently amended) The computer-readable medium of claim 16, wherein said user-selected parameters include [[s]] a non-portable directive to a compiler.

25. (previously presented) The computer-readable medium of claim 24, wherein said non-portable directive to a compiler assigns data to at least one memory location in said electronic device.

26. (currently amended) The computer-readable medium of claim 16, further storing computer-executable instructions for ~~wherein said method comprises the further step of:~~

creating a separate header file with said automatic code generator in response to said selection of one of said plurality of user-selected parameters.